

Appendix table 10--Coefficients of variation for corn<sup>1</sup>

Period	Planted acres	Yield	Production	Exports	Price received	Value of output
1950-83	0.1015	0.3117	0.3538	0.8597	0.4089	0.7077
1954-63	.0864	.1688	.1279	.4780	.1132	.0644
1964-73	.0481	.1210	.1528	.3707	.3219	.4596
1974-83	.0867	.1388	.2030	.1807	.1540	.1897
1954-58	.0479	.1034	.0720	.2884	.1004	.0552
1959-63	.1058	.0947	.0438	.2638	.0418	.0553
1964-68	.0342	.0837	.1072	.1214	.0646	.0776
1969-73	.0535	.0940	.1202	.3522	.3466	.4280
1974-78	.0340	.1068	.1384	.1922	.1485	.0855
1979-83	.1166	.1257	.2200	.1137	.1150	.1429
1984-88	.0938	.1219	.1846	.0851	.1912	.2347

<sup>1</sup> Coefficient of variation is a measure of variability which equals the standard deviation divided by the mean.

Appendix table 11--Provisions of corn programs, 1961-90

Provision	1961	1962	1963	1964
Parity price (\$/bu) 1/	1.62	1.61	1.59	1.56
Support price (\$/bu)	--	--	1.25	1.25
Payment rate (\$/bu)	--	--	0.18	0.15
Payment (\$)	--	--	2/ 0.18*Yld*Plt	2/ 0.15*Yld*Plt
Target price (\$/bu)	--	--	--	--
Deficiency payment: 3/				
Advance payment (\$/bu)	--	--	--	--
Final payment (\$/bu)	--	--	--	--
Allocation factor (%) 4/	--	--	--	--
Nonrecourse loan:				
Basic rate (\$/bu) 5/	6/ 1.20	6/ 1.20	1.07	1.10
Adjusted rate (\$/bu) 7/	--	--	--	--
CCC domestic sales: 8/				
Legislated minimum (\$/bu) 9/	1.26+CC	1.26+CC	1.31+CC	1.31+CC
Actual price (\$/bu) 10/	--	--	--	--
Farmer-owned reserve:				
Loan level (\$/bu)	--	--	--	--
Release level (\$/bu)	--	--	--	--
Call level (\$/bu)	--	--	--	--
Storage payment (\$/bu)	--	--	--	--
Immediate entry	--	--	--	--
Feed grain ceiling (mil bu)	--	--	--	--
Feed grain floor (mil bu)	--	--	--	--
Acreage diversion (%)	20	20	20	20-40
Payment rate (\$/bu)	50% of loan rate	50% of loan rate	20% of support	20% of support
Payment (\$)	11/ 0.60*Yld*Div	11/ 0.60*Yld*Div	2/ 0.25*Yld*Div	2/ 0.25*Yld*Div
Acreage diversion optional (%)	0-20	0-20	0-20	0-10
Payment rate (\$/bu)	60% of loan rate	60% of loan rate	50% of support	50% of support
Payment (\$)	11/ 0.72*Yld*Div	11/ 0.72*Yld*Div	2/ 0.625*Yld*Div	2/ 0.625*Yld*Div
Set-aside (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Set-aside alternate (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Set-aside voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
PIK acreage diversion (%)	--	--	--	--
Payment rate (bu)	--	--	--	--
Payment (bu)	--	--	--	--
Compliance restrictions:				
Soil conserving base 12/	Yes	Yes	Yes	Yes
Cross compliance 13/	No	14/ Yes	No	No
Offsetting compliance 15/	No	No	No	No
Normal crop acreage 16/	--	--	--	--
National base acres (mil):				
Feed grain	107.9	123.3	132.4	132.5
Corn	87.4	86.4	90.0	90.1
Corn-sorghum	--	--	--	--
Corn base in CRP	--	--	--	--
National allotment acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program yield (bu/ac)	--	--	52.9	56.4
Disaster program: 17/				
Prevented plantings payment (\$/bu)	18/	18/	18/	18/
Low yield criterion (%)	--	--	--	--
Low yield payment (\$/bu)	18/	18/	18/	18/
Payment limitation (\$)	--	--	--	--
Advanced payment (%)	19/ 50	19/ 50	20/ 50	20/ 50
Support payment limitation (\$)	--	--	--	--

See footnotes at end of table.

Continued--

Appendix table 11--Provisions of corn programs, 1961-90--Continued

Provision	1965	1966	1967	1968
Parity price (\$/bu) 1/	1.57	1.60	1.62	1.65
Support price (\$/bu)	1.25	1.30	1.35	1.35
Payment rate (\$/bu)	0.20	0.30	0.30	0.30
Payment (\$)	2/ 0.20*Yld*Plt	21/ 2/ .30*Yld*Plt	21/ 2/ .30*Yld*Plt	22/ 21/ .30*Yld*Plt
Target price (\$/bu)	--	--	--	--
Deficiency payment: 3/				
Advance payment (\$/bu)	--	--	--	--
Final payment (\$/bu)	--	--	--	--
Allocation factor (%) 4/	--	--	--	--
Nonrecourse loan:				
Basic rate (\$/bu) 5/	1.05	1.00	1.05	1.05
Adjusted rate (\$/bu) 7/	--	--	--	--
CCC domestic sales: 8/				
Legislated minimum (\$/bu) 9/	1.31+CC	1.37+CC	1.42+CC	1.42+CC
Actual price (\$/bu) 10/	--	--	--	--
Farmer-owned reserve:				
Loan level (\$/bu)	--	--	--	--
Release level (\$/bu)	--	--	--	--
Call level (\$/bu)	--	--	--	--
Storage payment (\$/bu)	--	--	--	--
Immediate entry	--	--	--	--
Feed grain ceiling (mil bu)	--	--	--	--
Feed grain floor (mil bu)	--	--	--	--
Acreage diversion (%)	20-40	20	20	20
Payment rate (\$/bu)	20% of support	--	--	--
Payment (\$)	2/ 0.25*Yld*Div	--	--	--
Acreage diversion optional (%)	0-10	0-30	--	0-30
Payment rate (\$/bu)	50% of support	50% of support	--	45% of support
Payment (\$)	2/ 0.625*Yld*Div	2/ 0.65*Yld*Div	--	0.6075*Yld*Div
Set-aside (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Set-aside alternate (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Set-aside voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
PIK acreage diversion (%)	--	--	--	--
Payment rate (bu)	--	--	--	--
Payment (bu)	--	--	--	--
Compliance restrictions:				
Soil conserving base 12/	Yes	Yes	Yes	Yes
Cross compliance 13/	14/ No	14/ No	14/ No	14/ No
Offsetting compliance 15/	Yes	Yes	Yes	Yes
Normal crop acreage 16/	--	--	--	--
National base acres (mil):				
Feed grain	132.7	133.2	114.9	115.1
Corn	90.3	90.4	90.4	90.4
Corn-sorghum	--	--	--	--
Corn base in CRP	--	--	--	--
National allotment acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program yield (bu/ac)	58.0	72.0	75.0	78.0
Disaster program: 17/				
Prevented plantings payment (\$/bu)	18/	18/	18/	18/
Low yield criterion (%)	--	--	--	--
Low yield payment (\$/bu)	18/	18/	18/	18/
Payment limitation (\$)	--	--	--	--
Advanced payment (%)	20/ 50	20/ 50	22/ 50	22/ 50
Support payment limitation (\$)	--	--	--	--

See footnotes at end of table.

Continued--

Appendix table 11--Provisions of corn programs, 1961-90--Continued

Provision	1969	1970	1971	1972
Parity price (\$/bu) 1/	1.72	1.79	1.88	2.01
Support price (\$/bu)	1.35	1.35	1.35	1.41
Payment rate (\$/bu)	0.30	0.30	--	--
Payment (\$)	22/ 21/ .30*Yld*Plt	22/ 21/ .30*Yld*Plt	--	--
Target price (\$/bu)	--	--	--	--
Deficiency payment: 3/				
Advance payment (\$/bu)	--	--	--	--
Final payment (\$/bu)	--	--	--	--
Allocation factor (%) 4/	--	--	--	--
Nonrecourse loan:				
Basic rate (\$/bu) 5/	1.05	1.05	1.05	1.05
Adjusted rate (\$/bu) 7/	--	--	--	--
CCC domestic sales: 8/				
Legislated minimum (\$/bu) 9/	1.42+CC	1.42+CC	1.42+CC	1.21+CC
Actual price (\$/bu) 10/	1.38	1.59	1.37	1.91
Farmer-owned reserve:				
Loan level (\$/bu)	--	--	--	--
Release level (\$/bu)	--	--	--	--
Call level (\$/bu)	--	--	--	--
Storage payment (\$/bu)	--	--	--	--
Immediate entry	--	--	--	--
Feed grain ceiling (mil bu)	--	--	--	--
Feed grain floor (mil bu)	--	--	--	--
Acreage diversion (%)	20	20	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage diversion optional (%)	0-30	0-30	--	--
Payment rate (\$/bu)	45% of support	40% of support	--	--
Payment (\$)	0.6075*Yld*Div	0.54*Yld*Div	--	--
Set-aside (%)	--	--	20	25
Payment rate (\$/bu)	--	--	24/ 0.32	24/ 0.40
Payment (\$)	--	--	0.32*Yld*Bas/2	0.40*Yld*Bas/2
Set-aside alternate (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Set-aside voluntary (%)	--	--	--	26/ 0-10
Payment rate (\$/bu)	--	--	--	0.52
Payment (\$)	--	--	--	0.52*Yld*Bas/2
Acreage reduction (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
PIK acreage diversion (%)	--	--	--	--
Payment rate (bu)	--	--	--	--
Payment (bu)	--	--	--	--
Compliance restrictions:				
Soil conserving base 12/	Yes	Yes	Yes	Yes
Cross compliance 13/	23/ No	23/ No	No	No
Offsetting compliance 15/	Yes	Yes	Yes	Yes
Normal crop acreage 16/	--	--	--	--
National base acres (mil):				
Feed grain	133.1	132.9	27/ 112.1	27/ 129.9
Corn	90.3	90.3	27/ 88.8	27/ 88.7
Corn-sorghum	--	--	--	--
Corn base in CRP	--	--	--	--
National allotment acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program yield (bu/ac)	81.0	81.0	81.0	81.0
Disaster program: 17/				
Prevented plantings payment (\$/bu)	18/	18/	--	--
Low yield criterion (%)	--	--	--	--
Low yield payment (\$/bu)	18/	18/	--	--
Payment limitation (\$)	--	--	--	--
Advanced payment (%)	50	No	--	--
Support payment limitation (\$)	--	--	29/ 55,000	29/ 55,000

See footnotes at end of table.

Continued--

Appendix table 11--Provisions of corn programs, 1961-90--Continued

Provision	1973	1974	1975	1976
Parity price (\$/bu) 1/	2.34	2.72	3.10	3.28
Support price (\$/bu)	1.64	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Target price (\$/bu)	--	1.38	1.38	1.57
Deficiency payment: 3/				
Advance payment (\$/bu)	--	--	--	--
Final payment (\$/bu)	--	0.00	0.00	0.00
Allocation factor (%) 4/	--	--	--	--
Nonrecourse loan:				
Basic rate (\$/bu) 5/	1.05	1.10	1.10	1.50
Adjusted rate (\$/bu) 7/	--	--	--	--
CCC domestic sales: 8/				
Legislated minimum (\$/bu) 9/	1.21+CC	1.27+Adj+CC	1.59+Adj+CC	1.81+Adj+CC
Actual price (\$/bu) 10/	2.93	3.21	3.11	None
Farmer-owned reserve:				
Loan level (\$/bu)	--	--	--	--
Release level (\$/bu)	--	--	--	--
Call level (\$/bu)	--	--	--	--
Storage payment (\$/bu)	--	--	--	--
Immediate entry	--	--	--	--
Feed grain ceiling (mil bu)	--	--	--	--
Feed grain floor (mil bu)	--	--	--	--
Acreage diversion (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage diversion optional (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Set-aside (%)	10	None	None	None
Payment rate (\$/bu)	24/ 0.32	Def	Def	Def
Payment (\$)	0.32*Yld*Bas/2	0.00*Yld*Alt	0.00*Yld*Alt	0.00*Yld*Alt
Set-aside alternate (%)	25/ 0	--	--	--
Payment rate (\$/bu)	0.15	--	--	--
Payment (\$)	0.15*Yld*Bas/2	--	--	--
Set-aside voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
PIK acreage diversion (%)	--	--	--	--
Payment rate (bu)	--	--	--	--
Payment (bu)	--	--	--	--
Compliance restrictions:				
Soil conserving base 12/	Yes	No	No	No
Cross compliance 13/	No	No	No	No
Offsetting compliance 15/	Yes	Yes	Yes	No
Normal crop acreage 16/	--	--	--	--
National base acres (mil):				
Feed grain	27/ 130.1	--	--	--
Corn	27/ 89.2	--	--	--
Corn-sorghum	--	--	--	--
Corn base in CRP	--	--	--	--
National allotment acres (mil):				
Feed grain	--	28/ 89.0	28/ 89.0	28/ 89.0
Corn	--	28/ 60.9	28/ 60.9	28/ 60.9
National program acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program yield (bu/ac)	87.0	97.0	93.0	93.0
Disaster program: 17/				
Prevented plantings payment (\$/bu)	--	0.46	0.46	0.52
Low yield criterion (%)	--	66.7	66.7	less than normal
Low yield payment (\$/bu)	--	0.46	0.46	0.52 on the short fall
Payment limitation (\$)	--	--	--	--
Advanced payment (%)	50	--	--	--
Support payment limitation (\$)	29/ 55,000	30/ 20,000	30/ 20,000	30/ 20,000

See footnotes at end of table.

Continued--

Appendix table 11--Provisions of corn programs, 1961-90--Continued

Provision	1977	1978	1979	1980
Parity price (\$/bu) 1/	3.45	3.74	4.21	4.65
Support price (\$/bu)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Target price (\$/bu)	2.00	2.10	2.20	31/ 2.35/2.05
Deficiency payment: 3/				
Advance payment (\$/bu)	--	--	--	--
Final payment (\$/bu)	0.00	0.03	0.00	0.00
Allocation factor (%) 4/	--	97.1	100	100
Nonrecourse loan:				
Basic rate (\$/bu) 5/	2.00	2.00	32/ 2.00/2.10	2.25
Adjusted rate (\$/bu) 7/	--	--	--	--
CCC domestic sales: 8/				
Legislated minimum (\$/bu) 9/	2.30+Adj+CC	3.00	0.00	3.42
Actual price (\$/bu) 10/	None	None	None	None
Farmer-owned reserve:				
Loan level (\$/bu)	2.00	2.00	32/ 2.00/2.10	33/ 2.25/2.40
Release level (\$/bu)	2.50	2.50	32/ 2.50/2.63	2.81
Call level (\$/bu)	2.80	2.80	32/ 2.80/3.05	3.26
Storage payment (\$/bu)	0.25	0.25	0.25	0.265
Immediate entry	No	No	No	No
Feed grain ceiling (mil bu)	No	No	No	No
Feed grain floor (mil bu)	No	No	No	No
Acreage diversion (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage diversion optional (%)	--	34/ 10	34/ 10	--
Payment rate (\$/bu)	--	0.20	1.00	--
Payment (\$)	--	0.20*Yld*Plt	1.00*Yld*Div	--
Set-aside (%)	None	34/ 10	34/ 10	None
Payment rate (\$/bu)	Def	AF*Def	AF*Def	AF*Def
Payment (\$)	0.00*Yld*Alt	0.029*Yld*Plt	0.00*Yld*Alt	0.00*Yld*Alt
Set-aside alternate (%)	--	35/ 5	35/ 10	36/ 0
Payment rate (\$/bu)	--	Def	Def	Def
Payment (\$)	--	0.03*Yld*Prg	0.00*Yld*Alt	0.00*Yld*Alt
Set-aside voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
PIK acreage diversion (%)	--	--	--	--
Payment rate (bu)	--	--	--	--
Payment (bu)	--	--	--	--
Compliance restrictions:				
Soil conserving base 12/	No	No	No	No
Cross compliance 13/	No	37/ Yes	37/ Yes	No
Offsetting compliance 15/	No	38/ Yes	38/ Yes	No
Normal crop acreage 16/	--	Yes	Yes	Yes
National base acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
Corn-sorghum	--	--	--	--
Corn base in CRP	--	--	--	--
National allotment acres (mil):				
Feed grain	28/ 89.0	--	--	--
Corn	28/ 60.9	--	--	--
National program acres (mil):				
Feed grain	--	39/ 88.7/97.4	39/ 83.4/109.4	39/ 103.9/105.2
Corn	--	39/ 67.6/76.2	39/ 63.7/85.7	39/ 82.1/84.1
National program yield (bu/ac)	90.0	94.0	95.4	96.2
Disaster program: 17/				
Prevented plantings payment (\$/bu)	0.67	0.70 on	0.73 on	31/ 0.78/0.68 on
Low yield criterion (%)	less than normal	75% normal yield	75% normal yield	75% normal yield
Low yield payment (\$/bu)	0.67 on	60 % of normal	60 % of normal	60 % of normal
Payment limitation (\$)	the short fall	1.05 on	1.10 on	31/ 1.18/1.03 on
Advanced payment (%)	--	the short fall	the short fall	the short fall
Support payment limitation (\$)	30/ 20,000	41/ 40,000	41/ 45,000	42/ 50,000

See footnotes at end of table.

Continued--

Appendix table 11--Provisions of corn programs, 1961-90--Continued

Provision	1981	1982	1983	1984
Parity price (\$/bu) 1/	4.91	5.06	5.17	5.33
Support price (\$/bu)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Target price (\$/bu)	2.40	2.70	2.86	3.03
Deficiency payment: 3/				
Advance payment (\$/bu)	--	0.105	0.105	--
Final payment (\$/bu)	0.00	0.15	0.00	0.43
Allocation factor (%) 4/	100	43/ NA	43/ NA	43/ NA
Nonrecourse loan:				
Basic rate (\$/bu) 5/	2.40	2.55	2.65	2.55
Adjusted rate (\$/bu) 7/	--	--	--	--
CCC domestic sales: 8/				
Legislated minimum (\$/bu) 9/	3.31	3.58	3.58	3.58
Actual price (\$/bu) 10/	3.52	3.80	3.87	3.90
Farmer-owned reserve:				
Loan level (\$/bu)	44/ 2.55	45/ 2.90	46/ 2.65	2.55
Release level (\$/bu)	44/ 3.15	45/ 3.25	46/ 3.25	3.25
Call level (\$/bu)	44/ 3.15	--	--	--
Storage payment (\$/bu)	0.265	0.265	0.265	0.265
Immediate entry	No	No	No	No
Feed grain ceiling (mil bu)	No	No	No	Could be
Feed grain floor (mil bu)	No	No	No	No
Acreage diversion (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage diversion optional (%)	--	--	10	--
Payment rate (\$/bu)	--	--	1.50	--
Payment (\$)	--	--	1.50*Yld*Div	--
Set-aside (%)	None	--	--	--
Payment rate (\$/bu)	AF*Def	--	--	--
Payment (\$)	0.00*Yld*Plt	--	--	--
Set-aside alternate (%)	36/ 0	--	--	--
Payment rate (\$/bu)	Def	--	--	--
Payment (\$)	0.00*Yld*Plt	--	--	--
Set-aside voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction (%)	--	10	10	10
Payment rate (\$/bu)	--	Def	Def	Def
Payment (\$)	--	0.15*Yld*Plt	0.00*Yld*Prg	0.43*Yld*Prg
Acreage reduction voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
PIK acreage diversion (%)	--	--	48/ 10-30	--
Payment rate (bu)	--	--	80% of yield	--
Payment (bu)	--	--	.8*Yld*PIK	--
Compliance restrictions:				
Soil conserving base 12/	No	No	No	No
Cross compliance 13/	No	No	No	No
Offsetting compliance 15/	No	No	No	No
Normal crop acreage 16/	Yes	43/ NA	43/ NA	43/ NA
National base acres (mil):				
Feed grain	--	119.9	120.5	120.6
Corn	--	81.3	82.6	80.8
Corn-sorghum	--	99.0	--	99.0
Corn base in CRP	--	--	--	--
National allotment acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program acres (mil):				
Feed grain	39/ 115.2/105.0	43/ NA	43/ NA	43/ NA
Corn	39/ 90.1/80.5	43/ NA	43/ NA	43/ NA
National program yield (bu/ac)	102.5	102.0	104.0	112.0
Disaster program: 17/				
Prevented plantings payment (\$/bu)	0.80 on 75% normal yield	49/ 0.90	49/ 0.95	49/
Low yield criterion (%)	60 % of normal	--	--	--
Low yield payment (\$/bu)	1.20 on the short fall	49/ 1.35	49/ 1.43	49/
Payment limitation (\$)	40/ 100,000	40/ 100,000	40/ 100,000	40/ 100,000
Advanced payment (%)	--	No	50	No
Support payment limitation (\$)	42/ 50,000	42/ 50,000	50/ 50,000	51/ 50,000

See footnotes at end of table.

Continued--

Appendix table 11--Provisions of corn programs, 1961-90--Continued

Provision	1985	1986 53/	1987	1988
Parity price (\$/bu) 1/	5.07	4.94	4.94	5.11
Support price (\$/bu)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Target price (\$/bu)	3.03	3.03	3.03	2.93
Deficiency payment: 3/				
Advance payment (\$/bu)	0.235	0.412	0.484	0.44
Final payment (\$/bu)	0.48	1.11	1.09	0.33
Allocation factor (%) 4/	43/ NA	43/ NA	43/ NA	43/ NA
Nonrecourse loan:				
Basic rate (\$/bu) 5/	2.55	2.40	2.28	2.21
Adjusted rate (\$/bu) 7/	--	1.92	1.82	1.77
CCC domestic sales: 8/				
Legislated minimum (\$/bu) 9/	3.58	3.33	3.33	3.22
Actual price (\$/bu) 10/	3.90	3.94	3.80	3.65
Farmer-owned reserve:				
Loan level (\$/bu)	2.55	1.92	1.82	1.77
Release level (\$/bu)	3.25	3.03	3.03	2.93
Call level (\$/bu)	--	--	--	--
Storage payment (\$/bu)	0.265	0.265	0.265	0.265
Immediate entry	No	No	No	54/ No
Feed grain ceiling (mil bu)	47/ Could be	55/ Yes	55/ Yes	Yes
Feed grain floor (mil bu)	No	--	--	--
Acreage diversion (%)	--	2.5	--	--
Payment rate (\$/bu)	--	0.73	--	--
Payment (\$)	--	0.73*Yld*Div	--	--
Acreage diversion optional (%)	--	--	15	10
Payment rate (\$/bu)	--	--	2.00	1.75
Payment (\$)	--	--	2.00*Yld*Div	1.75*Yld*Div
Set-aside (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Set-aside alternate (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Set-aside voluntary (%)	--	--	--	--
Payment rate (\$/bu)	--	--	--	--
Payment (\$)	--	--	--	--
Acreage reduction (%)	10	17.5	20	20
Payment rate (\$/bu)	Def	Def	Def	Def
Payment (\$)	0.48*Yld*Plt	1.11*Yld*Plt	1.21*Yld*Plt	Def*Yld*Plt
Acreage reduction voluntary (%)	--	56/ 50-92 rule	56/ 50-92 rule	57/ 0-92 rule
Payment rate (\$/bu)	--	Def	Def	Def
Payment (\$)	--	.92*1.11*Yld*Pmt	.92*1.21*Yld*Pmt	.92*Def*Yld*Pmt
PIK acreage diversion (%)	--	--	--	--
Payment rate (bu)	--	--	--	--
Payment (bu)	--	--	--	--
Compliance restrictions:				
Soil conserving base 12/	No	No	No	No
Cross compliance 13/	No	No	58/ Limited	58/ Limited
Offsetting compliance 15/	No	No	No	No
Normal crop acreage 16/	43/ NA	43/ NA	43/ NA	43/ NA
National base acres (mil):				
Feed grain	126.2	122.3	119.8	120.1
Corn	84.2	81.7	81.5	82.9
Corn-sorghum	103.5	100.6	98.9	--
Corn base in CRP	--	0.2	2.3	2.8
National allotment acres (mil):				
Feed grain	--	--	--	--
Corn	--	--	--	--
National program acres (mil):				
Feed grain	43/ NA	43/ NA	43/ NA	43/ NA
Corn	43/ NA	43/ NA	43/ NA	43/ NA
National program yield (bu/ac)	106.0	59/ 104.2	59/ 104.2	59/ 104.2
Disaster program: 17/				
Prevented plantings payment (\$/bu)	49/	49/	49/	49/
Low yield criterion (%)	--	--	--	--
Low yield payment (\$/bu)	49/	49/	49/	49/
Payment limitation (\$)	40/ 100,000	40/ 100,000	60/ Yes	60/ Yes
Advanced payment (%)	50	61/ 40/100	62/ 40/50	63/ 40/100
Support payment limitation (\$)	52/ 50,000	65/ 50,000	66/ 50,000	66/ 50,000

See footnotes at end of table.

Continued--



Appendix table 11--Provisions of corn programs, 1961-90--Continued

Provision	1989	1990
Parity price (\$/bu) 1/	--	--
Support price (\$/bu)	--	--
Payment rate (\$/bu)	--	--
Payment (\$)	--	--
Target price (\$/bu)	2.84	--
Deficiency payment: 3/		
Advance payment (\$/bu)	0.356	--
Final payment (\$/bu)	0.89	--
Allocation factor (%) 4/	43/ NA	43/ NA
Nonrecourse loan:		
Basic rate (\$/bu) 5/	2.06	--
Adjusted rate (\$/bu) 7/	1.65	--
CCC domestic sales: 8/		
Legislated minimum (\$/bu) 9/	3.02	--
Actual price (\$/bu) 10/	--	--
Farmer-owned reserve:		
Loan level (\$/bu)	1.65	--
Release level (\$/bu)	2.84	--
Call level (\$/bu)	--	--
Storage payment (\$/bu)	0.265	--
Immediate entry	54/ No	--
Feed grain ceiling (mil bu)	Yes	--
Feed grain floor (mil bu)	--	--
Acreage diversion (%)	--	--
Payment rate (\$/bu)	--	--
Payment (\$)	--	--
Acreage diversion optional (%)	--	--
Payment rate (\$/bu)	--	--
Payment (\$)	--	--
Set-aside (%)	--	--
Payment rate (\$/bu)	--	--
Payment (\$)	--	--
Set-aside alternate (%)	--	--
Payment rate (\$/bu)	--	--
Payment (\$)	--	--
Set-aside voluntary (%)	--	--
Payment rate (\$/bu)	--	--
Payment (\$)	--	--
Acreage reduction (%)	10	--
Payment rate (\$/bu)	Def	--
Payment (\$)	Def*Yld*Plt	--
Acreage reduction voluntary (%)	57/ 0-92 rule	--
Payment rate (\$/bu)	Def	--
Payment (\$)	.92*Def*Yld*Pmt	--
PIK acreage diversion (%)	--	--
Payment rate (bu)	--	--
Payment (bu)	--	--
Compliance restrictions:		
Soil conserving base 12/	No	No
Cross compliance 13/	58/ Limited	58/ Limited
Offsetting compliance 15/	No	No
Normal crop acreage 16/	43/ NA	43/ NA
National base acres (mil):		
Feed grain	119.1	--
Corn	82.8	--
Corn-sorghum	--	--
Corn base in CRP	3.1	--
National allotment acres (mil):		
Feed grain	--	--
Corn	--	--
National program acres (mil):		
Feed grain	43/ NA	43/ NA
Corn	43/ NA	43/ NA
National program yield (bu/ac)	59/ 104.2	--
Disaster program: 17/		
Prevented plantings payment (\$/bu)	49/	49/
Low yield criterion (%)	--	--
Low yield payment (\$/bu)	49/	49/
Payment limitation (\$)	60/ Yes	60/ Yes
Advanced payment (%)	64/ 40	40
Support payment limitation (\$)	66/ 50,000	66/ 50,000

See footnotes at end of table.

Footnotes for Appendix table 11--Provisions of corn programs

- 1/ Average parity price of corn for September.
- 2/ Paid either in the form of a certificate that may be redeemed in grain or as a sight-draft cashable at any bank.
- 3/ Deficiency payment is the difference between the target price and the higher of the 5-month national weighted average market price received by farmers or the loan rate. Starting in 1986, a supplementary (loan) deficiency payment was authorized as the difference between the basic loan rate and the higher of the adjusted loan rate or the national weighted average market price received by farmers for the entire marketing year.
- 4/ The allocation factor, ranging from 80 to 100, is determined by dividing national program acres by number of acres harvested.
- 5/ Before 1985 legislation, this is the national average loan rate. Under the 1985 Act, this is the basic loan rate as determined by the legislated formula.
- 6/ Limited to normal production on permitted acres.
- 7/ This is the loan rate after adjustment by the Secretary as authorized by the 1985 Act in order to make U.S. feed grains competitive in export markets.
- 8/ Sales made at fixed prices or through competitive bids.
- 9/ In any event, the CCC can not sell stock holdings for less than the going market price.
- 10/ Simple average of actual sales.
- 11/ Paid in the form of negotiable certificates for which participants can receive either grain or the cash equivalent of the grain as the CCC acts as their marketing agent.
- 12/ Producers must maintain a soil conserving base in addition to planting diverted acres to conserving use.
- 13/ Producers must be in compliance with programs for all program crops planted to the farm.
- 14/ Producers (other than certain producers of malting barley) must not exceed the barley base.
- 15/ Producers must be in compliance with feed grain program requirements on other farms they own or have an interest in.
- 16/ The total acres of crops in the normal crop acreage (NCA) -- barley, corn, dry edible beans, flax, oats, rice, rye, sorghum, soybeans, sugarbeets, sugar cane, sunflowers, upland cotton, and wheat -- planted on a farm plus acres setaside cannot exceed a farm's NCA.
- 17/ Bad weather or unavoidable hazard.
- 18/ Price support income is assured regardless of drought, hail, excess moisture, or other crop damage.
- 19/ At signup, the producer maybe paid 50 percent of the total payment for which he or she will become eligible by carrying out the program.
- 20/ At signup, the producer maybe paid 50 percent of the estimated total diversion payment.
- 21/ Payment on planted acreage, not to exceed 50 percent of total feed grain base.
- 22/ Participants who plant at least 90 percent of their maximum acreage eligible for price support payment will be considered as having planted their entire acreage eligible for payment.
- 23/ Producers who comply with the wheat and feed grain programs may substitute wheat for feed grains or feed grains for wheat within the total acreages permitted under both programs.
- 24/ The reported figure represents a preliminary payment. The total payment is determined by the difference between the support price and the average price received by farmers over the first 5 months of the marketing year. If the preliminary payment is greater than the total payment as finally determined, no refund is required.
- 25/ Producers who elect not to set aside but do not increase feed grain acreage above 1972 levels are eligible for program benefits at a lower level of support payment.
- 26/ Producers could offer additional acreage equal to 5 or 10 percent of the corn-sorghum base, subject to determination of need and acceptance by the Secretary. Set-aside payment rate for this additional voluntary set-aside was \$0.52 a bushel.
- 27/ Once set-aside and conserving base requirements are met, producers can plant any crop (excluding marketing quota crops) on the remaining acres. If

less than 45 percent of the feed grain base is planted to feed grains or authorized substitute crops (wheat and soybeans), this could result in loss of base not to exceed 20 percent in any one year. After 3 consecutive years of zero planting, the base will be removed.

28/ Any nonconserving crop, excluding marketing quota crops, may be substituted for feed grain in plantings. The feed grain allotment does not restrict the acreage of feed grains or substitute crop that a farmer may produce on his land. It is only used to determine payments to a producer in the event they are due. Failure to plant at least 90 percent of the farm allotment to feed grains or substitute crop will result in loss of allotment not to exceed 20 percent in any one year. After 3 consecutive years of zero planting, the allotment will be removed.

29/ Applies to feed grain program and public access payments a person can receive, but not to loans or purchases.

30/ Applies to total amount of payments a person can receive under a combination of feed grain, wheat, and upland cotton programs, but not to payments for public access, loans, and purchases.

31/ Target price for farmers who plant within their NCA is \$2.35, otherwise is \$2.05.

32/ Announced before (Reserve I)/announced following the suspension of exports to the Soviet Union (Reserve II).

33/ Announced before (Reserve III)/announced following passage of Agricultural Act of 1980 on December 3, 1980 (Reserve III).

34/ Set-aside and diversion based off of current plantings.

35/ By voluntarily reducing current year plantings of corn by the specified percentage of previous years plantings in addition to setting aside the program level of current year plantings, the farmers will be guaranteed 100 percent target price coverage. That is, their program payment would not be reduced by the allocation factor.

36/ By holding plantings at or below previous year levels, the farmers will be guaranteed 100 percent target price coverage. That is, their program payment would not be reduced by the allocation factor.

37/ Cross compliance requires farmers to comply with set-aside and NCA requirements for all crops in order to become eligible for program benefits on any crop in their farms' NCA.

38/ Off-setting compliance requires that to qualify for program benefits for crops included in the NCA on participating farms, landlords, landowners, and operators must assure that the NCA is not exceeded on any nonparticipating farms they own or operate that produce a set-aside crop.

39/ Preliminary/final announced national program acres.

40/ Limit to disaster payments per person for all programs.

41/ Total amount of deficiency and diversion payments a person can receive under a combination of feed grain, wheat, and upland cotton programs. The limitation does not apply to loans or purchases, or to payments for either prevented plantings or low yield disaster loss.

42/ Total amount of payments a person can receive under a combination of feed grain, wheat, rice, and upland cotton programs. The limitation does not apply to loans or purchases, or to payments for either prevented plantings or low yield disaster loss.

43/ Normal crop acres, national program acres, allocation factors, and voluntary reduction programs are not applicable when acreage reduction programs are in effect.

44/ For grain entered after October 6 (Reserve IV).

45/ For grain entered during 1982 marketing year (Reserve V), as announced January 29, 1982.

46/ For grain entered during 1983 marketing year (Reserve V).

47/ If a cap is imposed, it cannot be less than 1 million bushels of feed grains.

48/ An alternative for the farmer is withdrawing the whole base from production, with the producer bidding the percent of program yield, up to a maximum of 80 percent. However, bids could not be accepted which would cause the combined acreage taken out of production under the acreage reduction, cash diversion, and PIK programs to exceed 45 percent of the counties total acreage base.

49/ Available only to producers for whom Federal crop insurance is not available.

50/ Total amount of payments a person can receive under a combination of feed grain, wheat, rice, and upland cotton programs. The limitation does not apply to loans, purchases, or PIK.

51/ Total amount of payments, including PIK, a person can receive under a combination of feed grain, wheat, rice, upland cotton, and extra-long staple cotton programs. The limitation does not apply to loans or purchases.

52/ Total amount of payments a person can receive under a combination of feed grain, wheat, rice, upland cotton, and extra-long staple cotton programs. The limitation does not apply to loans or purchases.

53/ All cash payments subject to reduction of 4.3 percent, Gramm-Rudmann-Hollings Act.

54/ When 9-month loans mature, entry into the farmer-owned reserve will be permitted only if reserve quantities of grain fall below 450 million bushels and farm prices do not exceed 140 percent of the current loan rate.

55/ If the quantity of feed grains in the farmer-owned reserve exceeds 7 percent of the established feed grain usage for the crop year, entry of the feed grain crop into the reserve will not be permitted.

56/ Under the 50-92 rule, growers who plant between 50 and 92 percent of the permitted acreage to feed grains and devote the remaining permitted acres to a conserving use are eligible to receive deficiency payments on 92 percent of the permitted acreage.

57/ Under the 0-92 rule, growers who plant between 0 and 92 percent of the permitted acreage to feed grains and devote the remaining permitted acres to a conserving use, are eligible to receive deficiency payments on 92 percent of the permitted acreage.

58/ To be eligible for benefits for a participating wheat, feed grain, upland cotton, or rice crop, the acreage planted for harvest (or approved as prevented plantings) on a farm in other nonparticipating program crops, excluding extra-long staple cotton and oats, may not exceed the crop acreage bases of these crops. Oats and extra-long staple cotton are not subject to limited cross compliance requirements.

59/ Average of the program payment yields for 1981-85 crops, excluding the high and the low.

60/ The total of the following payments, combined with the total deficiency and diversion payments, is limited to \$250,000 per person: (1) disaster payments; (2) and gain realized by repayment of a loan at a lower level than the original loan level; (3) any deficiency payment for wheat or feed grains attributed to a reduction in the statutory loan rate; (4) any loan deficiency payment; (5) any inventory reduction payment; and (6) any payment representing compensation for resource adjustment or public access for recreation.

61/ At signup, participants may request 40 percent (75 percent in cash and 25 percent in generic certificates) of their projected 1986 deficiency payments and 100 percent of their diversion payments. A second advance was authorized in August 1986 permitting participants to request an additional 10 percent of their projected deficiency payments in generic certificates.

62/ At signup, participants may request 40 percent (50 percent in cash and 50 percent in generic certificates) of their projected 1987 deficiency payments and 50 percent (50 percent in cash and 50 percent in generic certificates) of their diversion payments.

63/ At signup, participants may request 40 percent (50 percent in cash and 50 percent in generic certificates) of their projected 1988 deficiency payments and 100 percent (100 percent in generic certificates) of their diversion payments.

64/ At signup, participants may request 40 percent of their projected 1989 deficiency payments.

65/ Total deficiency and diversion payments a person can receive under a combination of the feed grain, wheat, rice, upland cotton, and extra-long staple cotton programs. The limitation does not apply to loans, purchases, loan deficiency payments, first handler certificates, inventory protection certificates, or deficiency payments resulting from lowering the basic (statutory) loan rate.

66/ Total deficiency and diversion payments a person can receive under the wheat, feed grain, upland cotton, extra-long staple cotton, and rice programs.

Source: Green, Robert C. A Database for Support Programs of Program Crops, 1960-90. Staff Report (forthcoming). U.S. Dept. Agr., Econ. Res. Serv.

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